ABSTRACT

A method and system for providing a magnetic element and a magnetic memory using the magnetic element are disclosed. The magnetic memory includes a plurality of magnetic elements. The method and system include providing a plurality of layers and a passivation layer for each of the plurality of magnetic elements. A portion of the layers in the magnetic element includes at least one magnetic layer. The plurality of layers also has a top and a plurality of sides. The passivation layer covers at least a portion of the plurality of sides.